## PATENT CLAIMS

1. Process for the production of surface-finished paper or board (B<sub>w</sub>), characterized in that an aqueous solution (L<sub>w</sub>) of a surface-finishing active ingredient (W) is applied to a hydrophilic paper or board sheet (B),

in which (W) consists of

 $(W_1)$  polyethylene glycol with an average molecular weight  $\overline{M}_W$  of > 1500 and optionally at least one further additive which is a further finishing additive and/or a formulation additive, and the paper or board sheet surface-treated with (Lw) is fed through smoothing rolls and dried.

2. Process according to Claim 1, characterized in that (W) consists of at least 30 % by weight of (W<sub>1</sub>) and any remainder to 100 % by weight of at least one further of the finishing additives (W<sub>2</sub>) and (W<sub>3</sub>) and/or formulation additives (W<sub>4</sub>), in which

(W<sub>2</sub>) is at least one dye and/or optical brightener,

(W<sub>3</sub>) is at least one wet strength additive

and (W<sub>4</sub>) is a least one agent for pH adjustment.

3. Process according to Claim 1 or 7, characterized in that (W) contains at least one non-finishing formulation additive (F).

Process according to one of Claims 1 to 3, characterized in that (L<sub>w</sub>) essentially consists of (W) and water.

Process according to one of Glaims 1 to 4, at a line pressure of the smoothing rolls in the range of 8 to 500 KN/m.

6. Process according to one of Claims 1 to 5; characterized in that the paper or board sheet surface-treated with (1,w) is calendered.

- 7. Surface finishing agent for paper or board which is a solution (L<sub>w</sub>) as defined in Claim 4, wherein (F) is selected from,
  - (F11) antifoams
  - and  $(F_{12})$  agents for protecting against the damaging effect of microorganisms, and with a  $(W_1)$ -content in the range of 0.1 to 20 %.

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Surface finishing agent according to Claim 7 which is an antiyellowing agent for paper or board.

9. Paper or board (B<sub>w</sub>) surface-finished in accordance with any one of Claims 1 to 6.

- 10. Paper or board (B<sub>w</sub>) according to Claim 9 which is essentially size-free and is simultaneously intaglio printing and offset printing paper or board.
- 11. Process for the production of graphically processed paper or board by application of at least one graphic ink pattern to a substrate of paper or board, and drying, characterized in that the substrate used for this purpose is surface-finished paper (B<sub>w</sub>) or surface-finished board (B<sub>w</sub>) according to Claim 8 per 9.

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